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PATENT COOPERATION TREATY

MAY 3 0 2002

Novera Optics, Inc CUSYER POEMPLT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44 1)

WILSON, SONSINI. GOODFICHISH AND THE SEARCHING AUTHORITY

WILSON SONSINI GOODRICH & ROSATI Attn. Davis, Paul 650 Page Mill Road Palo Alto, CA 94304-1050 UNITED STATES OF AMERICA

Applicant's or agent's file reference

21501-750

International application No

PCT/US 01/15730

Applicant

NOVERA OPTICES, INC.

FOR FURTHER ACTION

Date of mailing (day/month/year)

See paragraphs 1 and 4 below

hal filing date h/vear)

15/06/2001

29/05/2002

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LOS ANGELES

1. X The applicant is heleby notified that the International Search Report has been established and is transmitted herewith Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international Search Report; however, for more details, see the notes on the accompanying sheet. International Bureau of WIPO Where? Directly to the 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35 JUN 1 0 2002 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the

priority claim, must reach the international Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even (ater).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into before all designated Offices which have not been elected in the demand or in a later election before all designated of the elected because they are not bound by Chapter II. priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Riiswiik

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.

Fax: (+31-70) 340-3016

Authorized officer

JUN 0 3 2002

Christoph Stuckart OFF, TAKED & LAFMAY SUNNYVALE

MAIL ROOM

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty in case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international politication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new,
- (iv) the claim replaces one or more claims as filed,
- (v) the claim is the result of the division of a claim as filed

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1 [Where originally there were 48 claims and after amendment of some claims there are 51] "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged, new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11].
 Claims 1 to 15 replaced by amended claims 1 to 11.
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims!
 "Claims 1 to 6 and 14 unchanged, claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4 [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled, claims 14, 15 and 16 replaced by amended claim 14, claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1))

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the international Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Bule 62.2(a), first sentence)

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicants or ager	FOR FURTHER See Notification of Transmittal of International Search Report Form PCT ISA 220) as well as, where applicable, tem 5 cerow				
21501-750	ration No.	international filing date (day month year)	Earliest, Priority Date (day month year)		
PCT/US 01/1	15730	15/06/2001	23/05/2000		
Applicant					
NOVERA OPTI	CES INC				
NOVERA OF FI	CLS, TNC.				
		en prepared by this international Searching Aut transmitted to the international Bureau	hority and is transmitted to the applicant		
	il Search Report consis t is also accompanied t	ts of a total of sheets. by a copy of each prior art document cited in this	s report.		
1 Basis of the	report				
a. With reg	ard to the language, th	e international search was carried out on the ba	asis of the international application in the		
language	e in which it was filed, u	inless otherwise indicated under this item.			
	the international search Authority (Rule 23.1(b))	was carried out on the basis of a translation of	the international application furnished to this		
b. With reg	ard to any nucleotide	and/or amino acid sequence disclosed in the i	nternational application, the international search		
_	ried out on the basis of a	the sequence listing; tional application in written form.			
		nternational application in computer readable for	m.		
=		to this Authority in written form.			
=		to this Authority in computer readble form.			
	the statement that the s	subsequently furnished written sequence listing	does not go beyond the disclosure in the		
	, ,	n as filed has been furnished.	is identical to the written sequence listing has been		
	furnished	mormation recorded in computer readable form	is identical to the written sequence asking the see		
2.	Certain claims were fo	ound unsearchable (See Box I).			
3.	Unity of invention is la	acking (see Box II).			
	A. M MAI				
4. With regard		cultimitted by the applicant			
		submitted by the applicant. Dished by this Authority to read as follows:			
		BLE OPTICAL FILTER			
GAIN FL	ATTENING TONA	DDE OFFICAD FIDILA			
	to the abstract,	as because of his the good on the			
		submitted by the applicant. blished, according to Rule 38.2(b), by this Autho	inty as it appears in Box III. The applicant may.		
X	within one month from	the date of mailing of this international search re	eport, submit comments to this Authority		
6. The figure o	of the drawings to be p	ublished with the abstract is Figure No.	11		
l			None of the figures		
	as suggested by the ap	oplicant.	140 He of the ligares		
1 🚟	, ,	oplicant. failed to suggest a figure.	None of the lightes		

Form PCT/ISA/210 (first sheet) (July 1998)

International application No

INTERNATIONAL SEARCH REPORT

PCT/US 01/15730

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

An optical apparatus includes an optical fiber (13). A plurality of individual optical fiber deformation structures, comprising e.g. acoustic wave propagation members (18) and acoustic wave generators (24), are positioned adjacent along a length of the optical fiber. Each of an individual optical fiber deformation structure introduces a mechanical or index deformation of a portion of the optical fiber (36) (e.g. by a flexural acoustic wave) to create perturbations in the optical modes in the fiber and provide a coherent coupling between two modes in the optical fiber. This apparatus provides a wavelength tunable bandpass filter (e.g. acousto-optic tunable filter, AOTF) and can be used to recover the gain flatness of erbiumdoped fiber amplifiers (EDFA) or as add/drop filter.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/US 01/15730

PCT/US 01/15730 CLASSIFICATION OF SUBJECT MATTER C 7 G02F1/01 G02F G02F1/125 H04J14/02 H01S3/067 G02F1/11 G02B6/14 Auditraing the international Patent Lassification (PC) in the both national classification and (PC) B. FIELDS SEARCHED Minimum tox umentation searched - classification system followed by classification symbols: IPC 7 GO2F GO2B Secumentation sear their than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and limited practical search terms used) EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC, COMPENDEX C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to Laim No Citation of document, with indication, where appropriate, of the relevant passages Category 1-7.9.12 EP 0 144 190 A (UNIV LELAND STANFORD X JUNIOR) 12 June 1985 (1985-06-12) page 22, line 30 -page 23, line 5; figures 3A,7 XU M G ET AL: "TUNABLE FIBRE BANDPASS 1,4.6.9. Α 24.32.39 FILTER BASED ON A LINEARLY CHIRPED FIBRE BRAGG GRATING FOR WAVELENGTH DEMULTIPLEXING" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 32, no. 20, 26 September 1996 (1996-09-26), pages 1918-1919, XP000637908 ISSN: 0013-5194 page 1919, right-hand column; figure 1 -/--Patent family members are listed in annex Further documents are listed in the continuation of box C χ χl Special categories of cited documents 'T' later document published after the international filing date or priority date and not in conflict with the application but *A* document detining the general state of the lart which is not considered to be of particular relevance. cited to understand the principle or theory underlying the invention *E* earlier document but published on or after the international "X" document of particular relevance, the claimed, invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *L* document which may throw doubts on priority claim(s) or which is cried to establish the publication date of another "Y" document of particular relevance, the claimed, invention cannot be considered to involve an inventive step when the document is combined with one or more other, such docucitation or other special reason (as specified) *O* document reterring to an oral disclosure, use, exhibition or ments such combination being obvious to a person skilled in the art other means *P* document published prior to the international filing date but later than the priority date claimed '&' document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 29/05/2002 25 April 2002

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Name and mailing address of the ISA

Fax (+31-70) 340-3016

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tei (+31-70) 340-2040, Tx. 31 651 epo nl. Authorized officer

Stang, I

INTERNATIONAL SEARCH REPORT

international Application No PCT/US 01/15730

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Sategory	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No
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	page 6, line 20 -page 8 	
A	EP 0 143 583 A (UNIV LELAND STANFORD JUNIOR) 5 June 1985 (1985-06-05)	1-3,6,9, 13, 17-21, 24,25, 32,35-39
	page 10, line 14 -page 11, line 30 page 31, line 30 -page 33, line 7; figures 2,3,14	
A	EP 0 221 560 A (AMERICAN TELEPHONE & TELEGRAPH) 13 May 1987 (1987-05-13) page 9, line 7 -page 13, line 30 page 14, line 28 -page 17, line 13; figures 1,4,7,8	1-9, 15-20,39
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PCT/US 01/15730

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